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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/672,225	09/26/2003	Ivan Alferiev	T1118-20074	2873
3000	7590 10/06/2005		EXAMINER	
CAESAR, RIVISE, BERNSTEIN, COHEN & POKOTILOW, LTD.			VENCI, DAVID J	
	, SEVEN PENN CENTER		ART UNIT	PAPER NUMBER
1635 MARKE			1641	
PHILADELPI	HIA, PA 19103-2212		DATE MAII ED: 10/06/2009	ς.

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/672,225	ALFERIEV ET AL.	ALFERIEV ET AL.			
Office Action Summary	Examiner	Art Unit				
	David J. Venci	1641				
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR I WHICHEVER IS LONGER, FROM THE MAILI - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communical - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, be Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS COMMUN CFR 1.136(a). In no event, however, may a tion. period will apply and will expire SIX (6) MO y statute, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on	January 3 2005					
· <u> </u>	· <u> </u>					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-30</u> is/are pending in the applic	cation.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)☐ Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
•	B)⊠ Claim(s) is/are objected to: B)⊠ Claim(s) <u>1-30</u> are subject to restriction and/or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
The oath of declaration is objected to by	the Examiner. Note the attache	d Office Action or form P1O-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International E * See the attached detailed Office action for	uments have been received. uments have been received in a e priority documents have been Bureau (PCT Rule 17.2(a)).	Application No I received in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-9-3) Information Disclosure Statement(s) (PTO-1449 or PTO/Paper No(s)/Mail Date	48) Paper No	Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152) 				

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Art Unit: 1641

Election/Restrictions

This application contains claims directed to the following patentably distinct groups of the claimed

invention. Restriction to the following inventions is required under 35 U.S.C. 121:

1. Claims 1-22, drawn to methods for determining a binding capacity, classified in

class 436/172, for example.

II. Claims 23-30, drawn to kits, classified in class 435/810, for example.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as product and process of use. The inventions can be shown to be distinct

if either or both of the following can be shown: (1) the process for using the product as claimed can be

practiced with another materially different product or (2) the product as claimed can be used in a

materially different process of using that product (MPEP § 806.05(h)). In the instant case, the product of

Invention II can be used in a materially different process, for example, in a photodynamic therapeutic

process.

Examination burden is established because the scope of prior art search required for Group II does not

appear coextensive with the scope of prior art search required for Group I. For example, a search for the

fluorophore of Group II does not appear to require a search for the method steps of Group I.

This application contains claims directed to the following patentably distinct species of the claimed

invention. Restriction to the following species is required under 35 U.S.C. 121:

1. Select ONE cleavable bond from:

a. Aromatic azo group (claims 2 and 4); OR

b. Disulfide bond (claims 2-3).

i. If and only if selection = "Disulfide bond (claims 2-3)", then select ONE thiol-containing fluorophore from claims 5-11 and 18.

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2. Select ONE functional group from:

- a. Amino group (claim 13);
- b. Thiol group (claim 13);
- c. Protected thiol group (claim 13); OR
- d. Epoxy group (claim 13).

3. Select ONE reactive moiety from:

- a. Thiol (claim 16);
- b. Thiol-reactive group (claim 16);
- c. Group adapted to be converted into a thiol (claim 16);
- d. Group adapted to be converted into a thiol-reactive group (claim 16);
- e. Amino group (claim 17); OR
- f. Dithio group (claim 19).

4. Select ONE surface from:

- a. Polymer/ polyurethane (claims 14-15);
- b. Metal (claim 14);
- c. Biomaterial (claim 14);
- d. Ceramic (claim 14); OR
- e. Semi-conductor (claim 14).

5. Select ONE reducing agent from:

- a. Dithiothreitol (claim 20);
- b. B-mercaptoethanol (claim 20);
- c. Mercaptoethylamine HCI (claim 20);
- d. Borohydride/Sodium borohydride (claims 20-21);
- e. Tris(2-cyanoethyl)phosphine (claims 20 and 22);
- f. Tris(2-carboxyethyl)phosphine (claims 20 and 22); OR
- g. Trimethylphosphine (claims 20 and 22).

Applicants are required under 35 U.S.C. 121 to elect ONE disclosed species from each of groups 1-5, supra, for prosecution on the ments. In addition, if species (1)(b) is selected, then Applicants are required to select ONE thiol-containing fluorophore from claims 5-11 and 18. Applicants' selection of ONE thiol-containing fluorophore from claims 5-11 and 18 must be consistent with Applicants' selected functional group (i.e. group 2) and chemically reactive with Applicants' selected reactive moiety (i.e. group 3). Applicants' selected functional group (i.e. group 2) and reactive moiety (i.e. group 3) must be chemically reactive with Applicants' selected reducing agent (i.e. group 5).

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The claims shall be restricted to Applicants' elected species if no generic claim is finally held allowable.

Currently, claims 1-2 are generic.

The species in each of groups 1-5, supra, are chemically distinct from each other. In combination, the

species in each of groups 1-5, supra, result in a method having multiple variations of chemically distinct

reaction mechanisms. Examination burden is established because the scope of prior art search required

for each chemically distinct reaction mechanism does not appear coextensive with other reaction

mechanisms.

Applicant is advised that a reply to this requirement must include an identification of the species that are

elected consonant with this requirement, and a listing of all claims readable thereon, including any claims

subsequently added. An argument that a claim is allowable or that all claims are generic is considered

nonresponsive unless accompanied by an election. Upon the allowance of a generic claim, applicant will

be entitled to consideration of claims to additional species which are written in dependent form or

otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims

are added after the election, applicant must indicate which are readable upon the elected species. MPEP

§ 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should

submit evidence or identify such evidence now of record showing the species to be obvious variants or

clearly admit on the record that this is the case. In either instance, if the examiner finds one of the

inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35

U.S.C. 103(a) of the other invention.

In September 2005, Examiner requested an oral election to the above restriction requirement. An agent

for Caesar, Revise, Bernstein, Cohen & Pokotilow, Ltd. declined to make said oral election.

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Applicant is advised that a complete reply to this requirement must include election of both an invention

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and species, even though the requirement may be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship

must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is

no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship

must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be

directed to David J. Venci whose telephone number is 571-272-2879. The examiner can normally be

reached on 08:00 - 16:30 (EST). If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Long Le can be reached on 571-272-0823. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC)

at 866-217-9197 (toll-free).

David J Venci Examiner Art Unit 1641

djv

LONG V. LE

SUPERMISORY PATENT EXAMINER
TECHNICLOSY CENTER 1600

09/30/01